

Appl. No. 09/609,913
Amendment Under 37 C.F.R. § 1.116
Reply to Office Action Mailed January 7, 2005

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions, and listings, of claims:

- 1 1. (Cancelled)
- 1 2. (Currently Amended) ~~The system of claim 1;~~ A system for use in a
2 mobile communications network having a plurality of cell sites, comprising:
3 an interface adapted to communicate with a base station system in a cell
4 site over a network; and
5 a controller adapted to transmit and receive data through the interface over
6 the network with the base station system according to a packet-switched protocol,
7 wherein the packet-switched protocol comprises a connectionless, packet-
8 based protocol.
- 1 3. (Currently Amended) The system of claim ~~[[1]]~~ 2, wherein the packet-
2 switched protocol comprises an Internet Protocol.
- 1 4. (Currently Amended) The system of claim ~~[[1]]~~ 2, wherein the interface
2 and controller comprise elements of a General Packet Radio Service system.
- 1 5. (Original) The system of claim 4, wherein the network comprises a Gb
2 network.
- 1 6. (Original) The system of claim 5, further comprising a serving General
2 Packet Radio Service support node comprising the interface and the controller.
- 1 7. (Cancelled)
- 1 8. (Currently Amended) The node of claim ~~[[7]]~~ 46, wherein the packet-
2 switched protocol comprises an Internet Protocol.

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1 9. (Currently Amended) The node of claim ~~[[7]]~~ 46, wherein the module is
2 adapted to communicate data packets, each packet containing addresses identifying the
3 node and the system controller.

1 10. (Original) The node of claim 9, wherein each packet contains Internet
2 Protocol addresses.

1 11. - 18. (Cancelled)

1 19. (Currently Amended) ~~The serving General Packet Radio Service support~~
2 ~~node of claim 18, A serving General Packet Radio Service (GPRS) support node for use~~
3 in a mobile communications system having base station systems, comprising:
4 an interface to one or more networks coupled to the base station systems,
5 the interface comprising a packet-switched element to manage communication according
6 to a packet-switched protocol over a network between the GPRS support node and at
7 least one of the base station systems,
8 wherein the packet-switched element comprises an Internet Protocol
9 element.

1 20. (Currently Amended) The serving General Packet Radio Service support
2 node of claim ~~[[18]]~~ 19, further comprising a User Datagram Protocol transport
3 component to manage connections over the network.

1 21. (Currently Amended) The serving General Packet Radio Service support
2 node of claim ~~[[18]]~~ 19, further comprising a network services layer to transport data
3 units containing signaling and bearer traffic over the network.

1 22. - 39. (Cancelled)

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1 40. (Currently Amended) The system of claim ~~[[1]]~~ 2, wherein the interface
2 comprises a network layer to manage communications of packets over the network, and a
3 transport layer to manage connections over the network.

1 41. (Previously Amended) The system of claim 40, wherein the controller
2 comprises a network services layer to transport packets through the transport and network
3 layers.

1 42. (Currently Amended) ~~The system of claim 41;~~ A system for use in a
2 mobile communications network having a plurality of cell sites, comprising:
3 an interface adapted to communicate with a base station system in a cell
4 site over a network; and
5 a controller adapted to transmit and receive data through the interface over
6 the network with the base station system according to a packet-switched protocol,
7 wherein the interface comprises a network layer to manage
8 communications of packets over the network, and a transport layer to manage
9 connections over the network,
10 wherein the controller comprises a network services layer to transport
11 packets through the transport and network layers,
12 wherein the network layer comprises an Internet Protocol layer to
13 communicate over a Gb network with an Internet Protocol layer of the base station
14 system.

1 43. (Previously Presented) The system of claim 42, wherein the transport
2 layer comprises a User Datagram Protocol layer.

1 44. (Previously Presented) The system of claim 43, wherein the network
2 services layer comprises a General Packet Radio Service network services layer.

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1 45. (Previously Presented) The system of claim 2, wherein the network
2 comprises a Gb network.

1 46. (Currently Amended) ~~The node of claim 7,~~ A node for use in a mobile
2 communications network having a system controller, the node comprising:
3 one or more radio transceivers adapted to communicate with mobile
4 stations; and
5 a module coupled to the one or more radio transceivers and adapted to
6 communicate with the system controller according to a packet-switched protocol,
7 wherein the packet-switched protocol comprises a connectionless, packet-
8 based protocol.

1 47. (Previously Presented) The node of claim 46, wherein the module is
2 adapted to communicate through a Gb interface to the system controller according to the
3 connectionless, packet-based protocol.

1 48. (Cancelled)

1 49. (Previously Presented) The serving General Packet Radio Service support
2 node of claim 19, wherein the Internet Protocol element is adapted to manage
3 communication of Internet Protocol packets to an Internet Protocol layer in the at least
4 one base station system over a Gb interface.

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1 50. (Currently Amended) ~~The node of claim 7, further comprising~~ A node for
2 use in a mobile communications network having a system controller, the node
3 comprising:
4 one or more radio transceivers adapted to communicate with mobile
5 stations;
6 a module coupled to the one or more radio transceivers and adapted to
7 communicate with the system controller according to a packet-switched protocol; and
8 an Internet Protocol layer to communicate over a Gb network with the
9 system controller according to an Internet Protocol.

1 51. (Currently Amended) ~~The method of claim 15, A method of~~
2 communicating in a mobile communications system having a base station system, a
3 system controller, and an interface between the base station system and the system
4 controller, the method comprising:
5 transmitting and receiving data packets over the interface between the base
6 station system and system controller according to a packet-switched protocol,
7 wherein transmitting and receiving data packets comprises an Internet
8 Protocol layer in the system controller transmitting and receiving Internet Protocol
9 packets over a Gb network with an Internet Protocol layer in the base station system.